

CLAIMS

1. A casing removal system , comprising:
 - a) a body, the body including first and second portions;
 - b) a clamp, the clamp being attached to the first and second portions of the
5 body, the clamp being mountable around a joint of casing which has been installed in a well bore;
 - c) a first drill movably mounted on the first portion of the body, the first drill comprising a first drill bit having a longitudinal axis, the first drill bit being rotatably connected to the first drill;
 - 10 d) a second drill movably mounted on the second portion of the body, the second drill comprising a second drill bit having a longitudinal axis, the second drill bit being rotatably connected to the second drill;
 - e) wherein, when the clamp is mounted on the joint of casing the longitudinal axis of the first drill bit is substantially aligned with the longitudinal axis of the second
15 drill bit.
2. The casing removal system of claim 1, further comprising a first pneumatic motor operatively connected to the first drill and a second pneumatic motor operatively connected to the second drill.
3. The casing removal system of claim 1, wherein the clamp further comprises
20 first and second sections, the first and second sections being connectable by a plurality of fasteners.
4. The casing removal system of claim 3, wherein the first and second sections of the clamp are hemispherically shaped.
5. The casing removal system of claim 1, wherein the first and second sections
25 of the clamp are connected by a hinge on one side and a plurality of fasteners on the other side.
6. The casing removal system of claim 3, wherein the clamp conforms to the shape of the joint of casing.
7. The casing removal system of claim 1, wherein the first portion of the body
30 further comprises a first handle operatively connected to the first drill and activation of the first handle causes movement of the first drill in a linear direction and wherein the

second portion of the body further comprises a second handle operatively connected to the second drill, and activation of the second handle causes movement of the second drill in a linear direction.

8. The casing removal system of claim 7, wherein the first portion of the body
5 further comprises a first base operatively connected to the first handle and also connected to the first drill, and activation of the first handle causes movement of the first base in a linear direction and wherein the second portion of the body further comprises a second base operatively connected to the second handle and also connected to the second drill, and activation of the second handle causes movement of the second base in
10 a linear direction.

9. The casing removal system of claim 7, wherein the first and second handles are activated by rotation.

10. The casing removal system of claim 8, wherein the first and second handles are activated by rotation.

11. The casing removal system of claim 8, wherein the first base is threadably
15 connected to the first handle.

12. The casing removal system of claim 8, wherein the first portion of the body further comprises a first plurality of guides slidably connected to the first base and guiding linear movement of the first base, and wherein the second portion of the body
20 further comprises a second plurality of guides slidably connected to the second base and guiding linear movement of the second base.

13. The fluid recovery system of claim 1, further comprising a first guard attached to the first portion and restricting access to the first drill bit, and further comprising a second guard attached to the second portion and restricting access to the
25 second drill bit.

14. The fluid recovery system of claim 1, further comprising a first pilot drill bit, the first pilot drill bit being attached to the first drill bit and a second pilot drill bit, the second pilot drill bit being attached to the second drill bit.

15. A method of removing a joint of casing from a well bore, comprising:
30 a) attaching a plurality of slips on a string of casing located in the well bore;
b) making a cut line which divides the string of casing into upper and lower

sections;

- c) removing the upper section of the string of casing;
- d) connecting a casing removal system on the joint of casing;
- e) the casing removal system in step “d” comprising a body, the body including
5 first and second ends, first and second drill bits operatively connected to the first and second ends, the first and second drill bits having longitudinal axes substantially aligned with each other; a clamp, the clamp connecting the first and second ends;
- f) drilling holes in the joint of casing with the first and second drill bits; and
- g) pulling up the lower section of the string of casing from the well bore using
10 the drilled holes.

16. The method of claim 15, wherein in step “c” the first and second drill bits are caused to be moved in a linear direction with first and second handles.

17. The method of claim 15, before completion of step “c,” further comprising the step of drilling first and pilot holes in the joint of casing using a plurality of pilot drill
15 bits.